



JUNE 28 - 30, 2005 NORFOLK CONVENTION CENTER

C2 Engineering Panel

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SPAWAR

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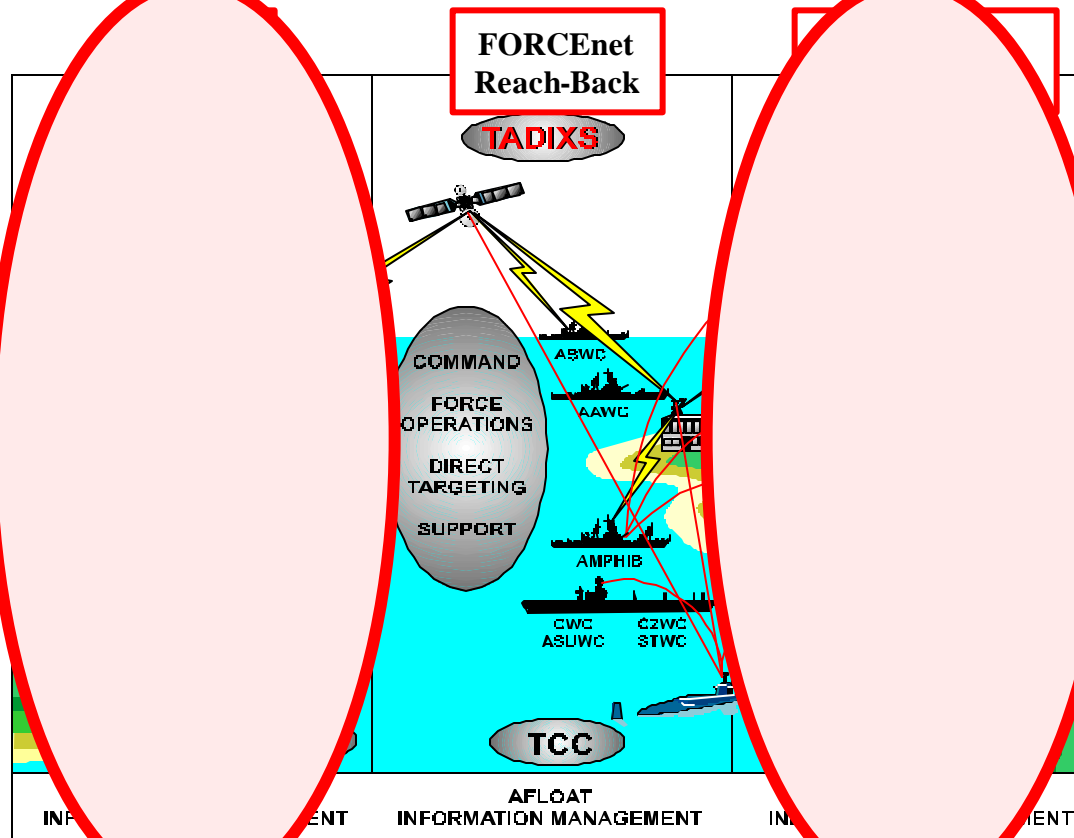
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~~Copernicus~~ Architecture

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- Reach-Back COMMS (IT21+)
- Tech Refresh on Current PORs

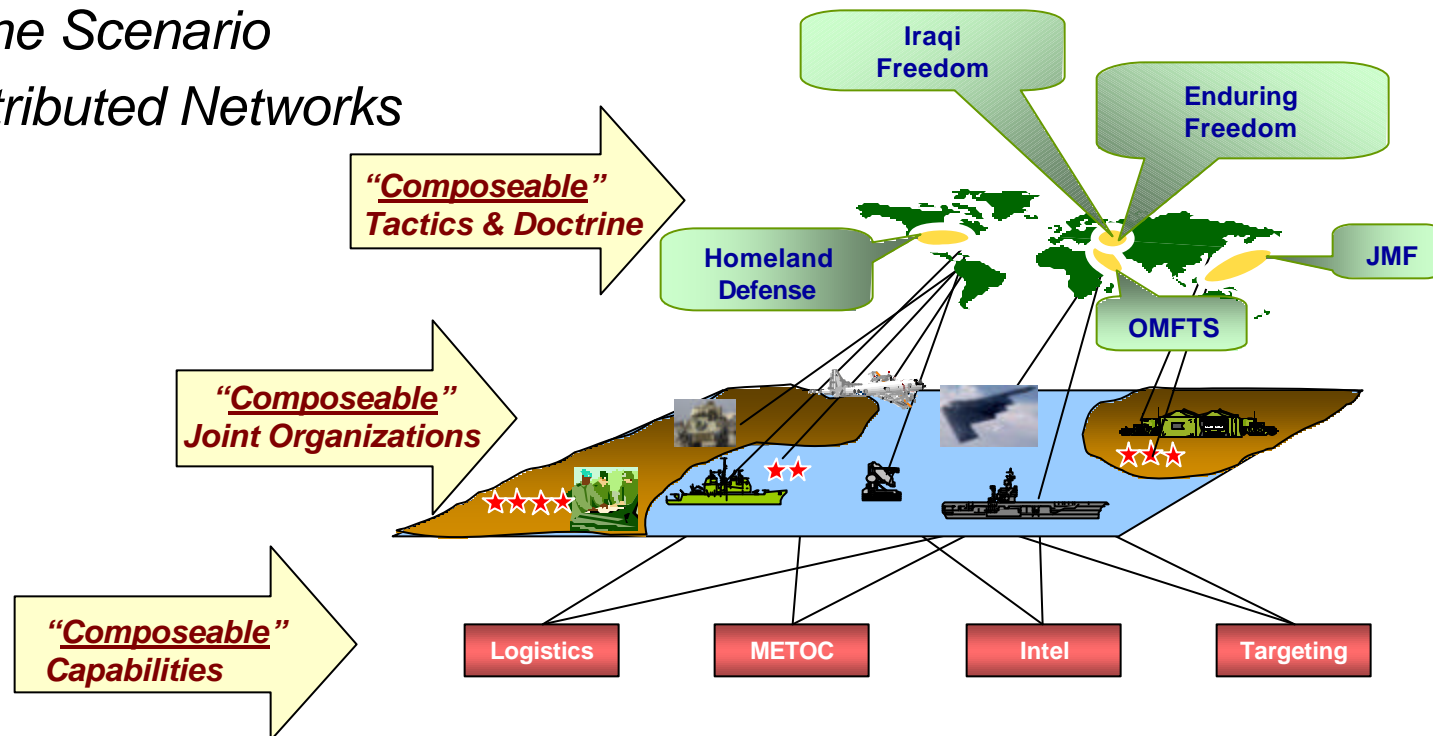
- Reach-Back Services
- Reach-Forward Services
- Mission Orientation
- Automation vs Human
- Non-Material Enhancements
- Change How Navy Uses PORs

A Technical and Implementation Strategy

Distributed Services Provide Composeable Capabilities



- *“Composeability” -- The Ability to Select “On the Fly” From a Vast Network, the Specific Information Resources Which Are Best Suited to Solving a Particular Problem or Providing Specific Information*
- *“On the Fly” -- Sources Will Change With the Information Needs of the Scenario*
- *Distributed Networks*



3 Aspects of Composeability



- Technical **Composeability** for:
 - Communications linkages
 - Data, Information, Knowledge flow management
 - Distributed information processing and storage
 - Full spectrum military and civil affairs program applications
 - Operational networking
 - Virtual collaboration
 - Functional, temporal, and geospacial visualization
- Operational **Composeability** to:
 - Accomplish any mission assigned
 - Facilitate seamless participation in any C/JTF
 - Form ad hoc communities of interest within the C/JTF and up through Tier 0 commands and across coalition boundaries
- Doctrinal and Tactical **Composeability** to:
 - Flex with any situation
 - Explore and exploit new concepts of operation
 - Deal with new threats as they appear

- Command and Control at the Tactical Edge
 - i.e. FAC to F-18
- What are the Comms Links That are Needed to Achieve This?
- Mobile Ad-hoc networking is a Must
- What Applications and Type Content is Required?